

Date: Wed, 3 Mar 93 18:51:10 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #281
To: Info-Hams

Info-Hams Digest Wed, 3 Mar 93 Volume 93 : Issue 281

Today's Topics:

940 vs 765,990,850 etc? (2 msgs)
 Assembly manuals needed.
 Charts/FCC
 Commercial satellites for datacomm?
Gas filled coax (Was: Re: Soldering PL259's)
 Ground planes and vertical dipoles
 Ham only dual-bander HT?
 Help! TVI in touch on lamps.
How about a J-wire for HF? (2 msgs)
 Info needed on GPS
Kenwood R-5000 rcvr featured in Test & Measurement World article
 Mail-Order Electrical Components
 NEED DOPPLER DF INFO (2 msgs)
 Surplus (was Clinton) (2 msgs)
 Wanted: Schematics for a Tempo One

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 3 Mar 1993 11:33:11 GMT
From: agate!howland.reston.ans.net!newsserver.jvnc.net!louie!pecan.cns.udel.edu!
penneys@ames.arpa
Subject: 940 vs 765,990,850 etc?
To: info-hams@ucsd.edu

I am looking to upgrade from a TS440SAT, primarily for contesting in CW and
SSB, and general use, usually CW.

At the moment, considering the TS940SAT, ICOM 765, TS850SAT, Yaesu 990, etc.
Most likely contenders used 940 or 765.

I know this is a well-worn topic, but now is the time.....so, please, your
comments, experiences, prejudices, rumors, what-have-you.

Winners get satisfaction of help keeping Delaware on the air.

Thanks----- Bob WN3K FRC

440, ICOM 730 up for grabs

Date: 3 Mar 93 13:10:41 GMT
From: ogicse!uwm.edu!wupost!news.utdallas.edu!feenix.metronet.com!
marcbg@network.UCSD.EDU
Subject: 940 vs 765,990,850 etc?
To: info-hams@ucsd.edu

In article <1993Mar3.113311.16086@udel.edu> penneys@pecan.cns.udel.edu (robert
penneys) writes:

>I am looking to upgrade from a TS440SAT, primarily for contesting in CW and
>SSB, and general use, usually CW.
>At the moment, considering the TS940SAT, ICOM 765, TS850SAT, Yaesu 990, etc.
>Most likely contenders used 940 or 765.
>I know this is a well-worn topic, but now is the time.....so, please, your
comments, experiences, prejudices, rumors, what-have-you.
>Winners get satisfaction of help keeping Delaware on the air.
>Thanks----- Bob WN3K FRC

The 940 is a good rig, but there is no comparison to the receiver between
that and a 990. The 990 is much quieter. In fact, the TS930 has a better
receiver than the TS940 (so does the TS950).

Yaeasu seems to have the edge in receivers in their 890, 990, and 1000
rigs. If you have a local ham store or one not too far away, see if you
can compare. The 765 is also a good rig, but I still believe the 990
beats it on receive.

--
Marc Grant | Internet: marcbg@feenix.metronet.com
POB 850472 | Amateur Radio Station N5MEI
Richardson, TX 75085 | "That's my perception of reality"

- - - ... - - -... -... ..- - - -... - - ...

Date: 1 Mar 93 22:37:37 GMT
From: ucla-mic!unixg.ubc.ca!cs.ubc.ca!utcsri!torn!spool.mu.edu!yale.edu!
cs.yale.edu!wcsu.ctstateu.edu!ritterbus001@locus.ucla.edu
Subject: Assembly manuals needed.
To: info-hams@ucsd.edu

Hi, Netters,

A colleague of mine has purchased two antennas, but alas, he is missing the assembly instructions, which seem to be a very necessary part. The antennas are a Wilson 'Y' Quad and a Wilson 'V' Quad.

If anybody can help out by providing assembly instructions, please drop me an e-mail, and I will give you the snail-mail address.

Thanks in advance,
Jim Ritterbusch
ritterbus001@wcsu.ctstateu.edu

Date: Tue, 2 Mar 1993 15:00:48 EST
From: anomaly.sbs.com!n1mpq!news@uunet.uu.net
Subject: Charts/FCC
To: info-hams@ucsd.edu

ferret@gnh-cathouse.cts.com writes:

> Also, I received my Technician license on Saturday Feb 28th. I was tested on
> Sun Jan 3. Not a bad turn around time - I was surprised. The effective date
> listed is 23-Feb-93.

Yeah, they seem to be running about 6-8 weeks. I'm up here in 1 land and waiting for my advanced call. I took my element 4A on 1/14, so with any luck I might have my new call in a couple of weeks. Oh I hope so...
Callsigns I'm hoping for (since my call will probably be a KD10x call)

KD10F - Old Fart
KD10M - Old Man
KD10J - Orange Juice
KD10S - Oh Sh_t! or Operating System
KD10Z - It would be great, the repeater trustee is KD1HZ,
the other control op is NM1Z and if I got KD10Z it'd be funny
since I'm the other control op.

Tony

```
-----
-- Tony Pelliccio, N1MPQ/AA           // Why do some hams run 20mW    //
-- god @ garlic.sbs.com               // into a stub-ducky in a car    //
-----// and wonder why they can't  //
-- Flame Retardent Sysadmin          // hit a repeater?              //
-----
-- A man who feels sees life as a tragedy, a man who thinks sees --
-- life as a comedy. (As found in a fortune cookie)              --
-----
```

Date: 3 Mar 93 18:02:06 GMT
From: mcsun!fuug!anon@uunet.uu.net
Subject: Commercial satellites for datacomm?
To: info-hams@ucsd.edu

Pardon the anonymous posting, but news is broken at our site and email is the only way I can post. I can read ok, though.

This is the only group I've found that looks like an appropriate place for this question; other suggestions would be appreciated. Can anyone suggest a commercial satellite service that can be used for some low-rate (2400 or 4800 bps) datacomms? The data source is a small mobile platform floating in the ocean, and needs to be as inexpensive as possible. The data only needs to go one direction, so if the channel error rate is low, a return path (for acknowledgements) would be unnecessary. One person has suggested INMARSAT as a candidate. Any other suggestions?

For email replies, please send to psm@nosc.mil, not the anonymous server, or you'll be anonymized too. Thanks.

To find out more about the anon service, send mail to help@anon.penet.fi. Due to the double-blind system, any replies to this message will be anonymized, and an anonymous id will be allocated automatically. You have been warned. Please report any problems, inappropriate use etc. to admin@anon.penet.fi. *IMPORTANT server security update*, mail to update@anon.penet.fi for details.

Date: Wed, 3 Mar 1993 15:23:33 GMT
From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!zaphod.mps.ohio-state.edu!swrinde!gatech!kd4nc!ke4zv!gary@network.UCSD.EDU
Subject: Gas filled coax (Was: Re: Soldering PL259's)
To: info-hams@ucsd.edu

In article <1n0eqqINNq8s@rave.larc.nasa.gov> kludge@grissom.larc.nasa.gov (Scott Dorsey) writes:

>
>I work weekends at a noncommercial station with a budget probably lower
>than many amateurs, and we have a nipple on one of the flanges of the heliax
>going to a short copper tube, and into a sealed plastic project box full of
>sal ammoniac. I replace the dessicant about every six months.
>--scott

At our station we run between 4 and 7 PSI overpressure with dry Nitrogen in our 6 1/8 inch rigid line. There's enough leakage due to expansion and contraction of the 1040 foot run that we go through about a bottle of Nitrogen a month. Our microwave waveguides are pressurized with an air dryer compressor at about 1 PSI. They leak too. I'm glad the dessicant works for you, but our lines leak too much and the transmit line needs the pressure to prevent arcing over. We push 73.2 kW RMS up the stick for an ERP of 618 kW.

Gary

--
Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems | we break it. | uunet!rsiatl!ke4zv!gary
534 Shannon Way | Guaranteed! | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244 | |

Date: Tue, 2 Mar 1993 21:00:14 GMT
From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!zaphod.mps.ohio-state.edu!
usc!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpl-opus!hpnmdla!alanb@network.UCSD.EDU
Subject: Ground planes and vertical dipoles
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, yee@mipg.upenn.edu (Conway Yee) writes:

>About the ground planes, though- they should be 1/4 wave radials.
>No problem so far. In HF mobile, however, the groundplane is the
>top of the car? It is highly unlikely that the "size" of the car
>is 1/4 wave. ...

>Also, the fact that the radials are 1/4 wave is an interesting point
>by itself. What is the tolerance of these radial lengths? What is
>the effect of having a radial which is a bit longer or a bit shorter?

This is the clue to your first question. The tolerance on radial length is a function of the thickness of the radials. If you made

each radial (19 inches long at 144 MHz), say, 6 inches in diameter, then the length is not critical at all. If you make the radial into a circular disc centered on the antenna, you get much the same effect.

Obviously there is a limit. A disc with a .1 wavelength radius won't work very well. Also the size of the plane affects radiation pattern. For example, an infinite plane has no radiation below the horizon, but a 1/4-wave-radius disc has quite a bit.

A car top is pretty good on the two meter band since it is more than 1/4 wave in all directions from the antenna if the antenna is centered on the roof. Also, it is reasonably symmetrical in all directions. A fender or trunk lid mount is not as good, for both reasons.

AL N1AL

Date: 3 Mar 93 13:07:42 GMT
From: ogicse!uwm.edu!wupost!news.utdallas.edu!feenix.metronet.com!
marcbg@network.UCSD.EDU
Subject: Ham only dual-bander HT?
To: info-hams@ucsd.edu

In article <112210@netnews.upenn.edu> yee@mipg.upenn.edu (Conway Yee) writes:
>Does a ham-only dual-bander HT exist? I want nice and tight filters to reduce
>intermod and have little use for a glorified scanner. I also have absolutely
>no interest in fifty gazillion features which I will never use. Memories?
>I want an HT, not a computer. Besides, how can a mere human keep track of
>more than 10 or so memories.

Well, I don't think you'll get so lucky in a dual bander. However, for a single band radio, the ol' IC2AT can't be beat. I'm afraid you're going to have to allow yourself to get sucked in by technology.

The Yeasu 530 and the larger Icom (I forget the model number) have fairly good front ends. But where are you going to be using it? In a car with w mag mount? With the stock antenna, most talkies do fairly well, even with the broad front ends. Problem is everyone tries to use them as mobile rigs and wonders why they receive everything from DC to daylight when hooked up to a 5db gain antenna. They're just not designed for that type of use. Sure, once in a while on a trip is ok, but if you want it for a car or base station, get yourself a mobile or base rig.

--

Marc Grant | Internet: marcbg@feenix.metronet.com

took it to my son's school, threw it up in a tree with some fishing line and worked the US and Europe. I just fed it directly with RG-58.

Bob Headrick WA7OVU
bobh@cup.hp.com

Date: Tue, 2 Mar 1993 21:13:50 GMT
From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!zaphod.mps.ohio-state.edu!
usc!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpl-opus!hpnmdla!alanb@network.UCSD.EDU
Subject: How about a J-wire for HF?
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, maessm@rs6314.ecs.rpi.edu (Mat Maessen N2NJZ) writes:

>In article <9303011310.A22824@sceng.ub.com>, thorburn@sceng.UB.COM
(Thorburn_Gary) writes:

>|> How about extending the
>|> j-pole design to a wire antenna for HF (say, 30m)
>|> constructed of a wire "pole", and some 450-ohm ladderline
>|> for the "J". It would be fed at the appropriate point on
>|> the ladder line by a balun, and coax to the rig.

>I have built a 10-meter J-pole out of 450-ohm ladderline and wire. I strung it
>up in a tree with the top end about 25 feet high and the base a few inches off
>the ground. The SWR was below 1.6:1 over 28.000-28.800 Mhz. It got out about
>as well as the dipole I had strung up at about the same height as the top of
>the J-pole.

>The design works fine, but it is significantly taller than an equivalent 1/4
>wave or a vertical 1/2 wave dipole.

One way to reduce the height would be to run the 1/4-wave matching stub
(the "J" part) at right angles to the 1/2-wave radiator. What you
basically have then is a 1/2-wave vertical with a single 1/4-wave
radial that doubles as a matching stub.

AL N1AL

Date: 3 Mar 93 12:30:47 GMT
From: ogicse!uwm.edu!cs.utexas.edu!torn!csd.unb.ca!news@network.UCSD.EDU
Subject: Info needed on GPS
To: info-hams@ucsd.edu

In article <1n0q3n\$1ep@hpscit.sc.hp.com> jeff@nsr.hp.com (Jeff Gruszynski) writes:

>I found an ad for a company in Arlington, VA that claims to be the "only
>company specializing in GPS seminars and books." _I have no idea_ if they
>have anything worthwhile (I'm still waiting for their catalog :-), but
>here's the info:

>

>Navtech Seminars, Inc.

>Navtech Book & Software Store

>1-800-NAV-0885

>

>Caveat Emptor!

Among other things, they sell the Guide to GPS Positioning, a 600-page paperback introduction to GPS, which sells for around \$35. Oh, by the way, I'm one of the co-authors of the Guide and from time to time help out with Navtech's seminars.

-- Richard Langley

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Richard B. Langley                               Internet: LANG@UNB.CA or SE@UNB.CA
Geodetic Research Laboratory                     BITnet:   LANG@UNB or SE@UNB
Dept. of Surveying Engineering                   Phone:   (506) 453-5142
University of New Brunswick                     FAX:    (506) 453-4943
Fredericton, N.B., Canada E3B 5A3               Telex:   014-46202
=====
```

Date: Wed, 3 Mar 1993 13:24:20 GMT

From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!qt.cs.utexas.edu!yale.edu!
spool.mu.edu!uwm.edu!linac!att!cbnewse!parnass@network.UCSD.EDU

Subject: Kenwood R-5000 rcvr featured in Test & Measurement World article

To: info-hams@ucsd.edu

The March 1993 issue of "Test & Measurement World" magazine contains an article about constructing an automated test system and uses the Kenwood R-5000 as the device under test.

This is a "freebie" industry magazine.

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Bob Parnass, AJ9S - AT&T Bell Labs - parnass@ihlpm.att.com - (708)979-5414
=====
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Date: 3 Mar 93 23:24:00 GMT

From: news-mail-gateway@ucsd.edu

Subject: Mail-Order Electrical Components

To: info-hams@ucsd.edu

I'm looking for a mail-order company to buy electrical components from.
If anyone has a recommendation, please let me know. Thanks in advance.

Michael C. Taylor
e-mail: 351smwdov@strathost.stratcom.af.mil
phone: 816-687-5967

Date: Wed, 3 Mar 1993 23:41:55 GMT
From: swrinde!cs.utexas.edu!torn!utcsri!newsflash.concordia.ca!
hobbit.ireq.hydro.qc.ca!barde!vaillan@network.UCSD.EDU
Subject: NEED DOPPLER DF INFO
To: info-hams@ucsd.edu

In article 26428@news.columbia.edu, mac20@cunixf.cc.columbia.edu (Michael A Cecere) writes:

>Speaking of doppler direction finding can someone give me the low-down
>on the principles involved?

>

>I mean, basically, who's moving?

>

>Thanks,

>Mike

Very simple, If you take an array of antenna and you switch them electronically,
the antenna are moving.

Clement Vaillancourt, | Institut de Recherche d'Hydro-Quebec
Analyste, | Varennes, P. Quebec, Canada, J3X 1S1
Division Informatique scientifique | Tel:+1 514 652 8238 Fax:+1 514 652 8309
vaillan@ireq.hydro.qc.ca | Radio-amateur: VE2HQJ@VE2CSC.PQ.CAN.NA

Date: 2 Mar 93 20:40:25 GMT
From: unogate!news.service.uci.edu!usc!zaphod.mps.ohio-state.edu!
saimiri.primite.wisc.edu!usenet.coe.montana.edu!logicse!flop.ENGR.ORST.EDU!
gaia.ucs.orst.edu!hebron.connected.com!@mvb.saic.com
Subject: NEED DOPPLER DF INFO
To: info-hams@ucsd.edu

bcobb@wkuvx1.bitnet wrote:

: Am looking for any information concereng doppler shift direction

: finding. Several firms market doppler shift RDF equipment, but I can't
: seem to find any schematics..I wan't to build somthing to track down
: some local repeater problems.. Any infor would be of help..73 and tnx

"Transmitter Hunting, Radio Direction Finding Simplified"
by Moell and Curlee. Tab Books 1987 (Tab book 2701)

Mark Zenier markz@ssc.wa.com

Date: 3 Mar 93 12:28:31 GMT
From: agate!howland.reston.ans.net!newsserver.jvnc.net!netnews.upenn.edu!prijat!
triangle.cs.uofs.edu!bill@ames.arpa
Subject: Surplus (was Clinton)
To: info-hams@ucsd.edu

I would love to lay my hands on an AN/GRC-106. Any of them showing up in
surplus (cheap)??

bill KB3YV

--

Bill Gunshannon	"There are no evil thoughts, Mr. Reardon" Francisco
bill@cs.uofs.edu	said softly, "except one; the refusal to think."
	#include <std disclaimer.h>

Date: 2 Mar 93 23:22:05 GMT
From: ogicse!uwm.edu!zaphod.mps.ohio-state.edu!usc!cs.utexas.edu!not-for-
mail@network.UCSD.EDU
Subject: Surplus (was Clinton)
To: info-hams@ucsd.edu

Howdy...

If you only want to get a couple of mailings every month, I suggest
you call up your local Air Force or Army Base, and ask the Defense
Reutilization Merchandise Sales (drmo) to put you on the mailing lists for
the monthly auctions.....

That should say Defense Reutilization Merchandise Office..... Anyway
I don't think you will find the radio equipment affordable on an individual
basis (unless you like civilian Motorola Handheld radios.....they hardly ever
have military radios available for auction around here, and when they do,

people bid outrageous amounts for them and the stuff is usually junk.....that they find out doesn't work or that they can't use (without a license....).....

Good luck.....Happy hunting!

73...

T.M.K

P.S. If you don't participate after they've sent you 5 catalogues (for 5 different auctions...) You will be Purged from the system!

Internet: phantom@pro-haven.cts.com KJ5GU/AE
UUCP: crash!pro-haven!phantom Try 28.440MHz.....
For the latest breaking Aggie Jokes, Dial 1-800-AGGIE-IQ.....
".....and for the first time in twenty years in Waxahachie, Texas.....
.....it rained!" The Rocky and Bullwinkle Show

Date: 2 Mar 1993 22:40:27 GMT
From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!wupost!gumby!destroyer!
fmsrl7!lynx.unm.edu!SantaFe!sfi!rmf@network.UCSD.EDU
Subject: Wanted: Schematics for a Tempo One
To: info-hams@ucsd.edu

I'm posting this for a friend. He would like to get a copy of the schematics for a Tempo One transceiver made by Henry Radio. If possible, he would also like to get a copy of the service manual.

Please reply via Email to "rmf@santafe.edu". I will also be glad to forward whatever useful information I get to anyone who asks. Just send me Email.

Thanks in advance,
Rob Farber

End of Info-Hams Digest V93 #281
